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## A CHECKLIST OF THE VASCULAR FLORA OF THE PORONGURUP NATIONAL PARK, WESTERN AUSTRALIA

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### ABSTRACT

The Porongurup National Park contains a flora of at least 822 species of vascular plant. Of these 709 are natives and 113 are weeds. A feature of the range is the number of wet temperate species, including one of the dominant trees (*Karri-Eucalyptus diversicolor*) at their inland margins. There are 10 taxa endemic to the range and brief notes are given on their biology.

### INTRODUCTION

The Porongurup National Park (Reserve 18978) is found approximately 35 kilometres north-east of Albany and encompasses within an area of 2,511 hectares the bulk of the Porongurup Range. This granite range rises to a maximum height of 670 metres at Devil's Slide and runs in an east-west direction.

There have been two previous lists of vascular plants prepared for the ranges.

The first list was compiled by members of the Botany Department, University of Western Australia from student field camps and granite rock studies (Smith, 1962) and listed 221 species (Botany Department, 1970). The second by Abbott (1982) listed the flora of the Range itself, above 300 metres and listed 368 species.

The current list is based on these previous lists and extensive field survey of the endemics of the Range mainly undertaken in 1986 and 1987.

## RESULTS

The major vegetation formations listed for the Range by Beard (1976) are Jarrah (*Eucalyptus marginata*) and Marri (*Eucalyptus calophylla*) tall to low forest to low woodland which occurs on lower slopes and poorer sandy, duplex or lateritic soils. In this vegetation community a diverse range of shrubs and herbs form the understorey. Karri (*E. diversicolor*) tall forest centred on the creek lines and lower slopes of the range. This forest has a variable understorey of tall shrubs of *Acacia urophylla*, *Trymalium floribundum*, *Hibbertia serrata*, *Pimelea sylvestris* and vines such as *Clematis pubescens* and *Kennedia coccinea*.

Rising above the Karri forest are the bare granite domes of the range, these granite areas contain moss fields, with their associated herbfields (Smith, 1962). Along the rock rills and in depressions where deeper soils are found are shrublands of *Brachysema subcordatum*, *Acacia heteroclita* and *Agonis linearifolia* over sedges of *Lepidosperma gladiatum* and herbs such as *Stypandra glauca*. Between this community and the Karri forest are low woodlands of Bullich (*Eucalyptus megacarpa*) of Yate (*Eucalyptus cornuta*) often with a similar understorey to the rills.

There are also number of minor communities which Beard did not map separately, including small areas of Mallee heath dominated by *Eucalyptus tetragona* or *Eucalyptus decipiens*. Another small community *Melaleuca preissiana* low woodland over *Pericalymma ellipticum* shrubland wetland on the western Margin of the Park, contains numerous wetland species only recorded from this area and is thus listed separately in Appendix I.

Current records of the vascular flora present inside the boundaries of the national Park are given in Appendix I. These records are listed under the major vegetation types of Jarrah, Karri, granite slopes, but also includes the western swamp.

Despite its small size and limited range of habitat's the flora of the park is rich, being composed of over 822 (709 natives and 113 weeds) taxa of vascular plants. Of these 10 are Ferns and Fern allies, 222 are Monocotyledons and 590 are Dicotyledons.

There has been a long history of disturbance in the Park from grazing, timber cutting, partial clearing, roads for stock transportation and settlements (Burchell, undated) which has resulted in the introduction of many alien plants and created the disturbed areas for their establishment. Of the 113 taxa of weeds in the park, the major weeds are along creek lines are Blackberries (*Rubus* species), Forget Me Nots (*Myosotis sylvatica*). In areas of past disturbance Dolichos Pea (*Dolichos lignosus*), Silky Wattle (*Acacia dealbata*), Taylorina (*Psoralea pinnata*). Potentially very serious weeds (Arum Lily and Watsonia) of these areas are present in the park. As illustrated by Taylor (1990) annual grasses are a major threat to the granite rock communities. Control of these weeds is discussed in the recent draft management plan (Herford *et al*, 1997).

The largest families are the Cyperaceae (31 natives, 2 weeds), Orchidaceae (57 natives, 1 weed), Poaceae (17 natives, 17 weeds), Asteraceae (38 natives, 16 weeds), Epacridaceae (31 natives), Mimosaceae (21), Myrtaceae (44), Papilionaceae (47 natives, 11 weeds) and the Proteaceae (52 natives).

## GEOGRAPHICALLY SIGNIFICANT RECORDS

Because of the granitic soils and run-off from the range there are a number of species at the inland margins of their ranges. These taxa include:

*Adiantum aethiopicum*, *Carex appressa*, *Dampiera hederacea*, *Darwinia citriodora*, *Eucalyptus diversicolor*, *Gonocarpus diffusus*, *Hakea falcata*, *Hibbertia serrata*, *Hydrocotyle plebeja*, *Isolepis inundata*, *Lysinema lasiantha*, *Ozothamnus ramosus*, *Persoonia elliptica*, *Picris angustifolia*, *Rorippa dictyosperma*, *Scaevola auriculata*, *Senecio ramosissimus*, *Trachymene anisocarpa*, *Thryptomene saxicola* and *Xanthorrhoea gracilis*.

While most plants of the park are normal components of the Jarrah, Karri and granite rocks in the higher rainfall areas of southern Western Australia. Many of the normal important components of the Karri forest are absent, notably Karri Wattle (*Acacia pentadenia*), Karri Oak (*Chorilaena quercifolia*) and *Lasiopetalum floribundum*.

Only one species appears to be at its south-western margin in the park, this is *Calectasia grandiflora*.

## ENDEMIC OF THE RANGE AND THEIR BIOLOGY

There are 5 species (*Brachysema subcordatum*, *Billardiera granulata*, *Hibbertia bracteosa*, *Villarsia calthifolia* and *Villarsia marchantii*) and 5 subspecies/varieties (*Acacia drummondii* ssp. *elegans* (Porungurup variant, R.J. Cummings 938), *Acacia heteroclita* ssp. *valida*, *Apium prostratum* ssp. "phillipii", *Conospermum caeruleum* ssp. *adpressum* and *Stylidium corymbosum* var. *proliferum*) endemic to the Range. Brief notes are presented on their distribution and biology.

*Acacia drummondii* ssp. *elegans* (Porungurup variant, R.J. Cummings 938). This low shrub is found on lateritic and loam soils in Jarrah forest of the western half of the range. Killed by fire and occurs abundantly after fires. This taxon like *Conospermum caeruleum* ssp. *adpressum* probably occurred outside the range before clearing.

*Acacia heteroclita* ssp. *valida*. This large spreading shrub occurs between Yalperungup and Twin Peaks around the base of the granite rock sheets or along rock rills. Killed by fire, regenerates from seed.

*Apium prostratum* ssp. *phillipii* ms An erect perennial herb from a tuberous rootstock. Confined to creeklines in Bullich or Karri forest near the base or below the granite slopes. Pollination and response to fire unknown.

*Brachysema subcordatum* This is a suckering shrub, confined to rills, often dominating this vegetation between Yalperungup and Castle Rock. Pollinated by birds. Adult plants are killed by fire, massive seedling regeneration occurs after fires. First flowering occurs 2–3 years after the fire.

*Billardiera granulata* A slender vine to 5 metres. Killed by fire, occurring in abundance after fires often dominating the shrub layer in burnt Bullich stands for 5–10 years after fire. Pollinated by solitary bees. Occurs from Yalperungup to Castle Rock in Bullich or Yate woodlands, on rock rills and occasionally along creek lines in the Karri forest.

*Conospermum caeruleum* ssp. *adpressum*. A tufted slender small shrub found only in one area of heath/shrubland on coarse sands. Probably extended beyond the park on this soil/vegetation type before clearing. Pollinated by solitary

bees. Adult plants killed by fire, very susceptible to *Phytophthora cinnamomii* (dieback disease).

*Hibbertia bracteosa*. Unlike most Hibbertias which are low woody shrubs, this species is a spreading rhizomatous herbaceous sub-shrub. Flowering in late spring, it occurs from Yalperungup to Nancy's Peak. Pollinated by native bees and syrphid flies. Killed by fire regenerates prolifically from seed. A large number of plants died during the severe drought summers of 1986/87, however, populations have regenerated from seed, flowering in 18 months from seed.

*Stylidium corymbosum* var *proliferum*. A spreading stilt rooted perennial herb in moss swards on granite slopes between Nancy's Peak and Yalperungup. Killed by fire. Pollination unknown. Collections that may be this taxon have recently been collected from Mount Manypeaks.

*Villarsia calthifolia*. Unlike most other species which are aquatics, the following species, a short lived perennial herb from a tuberous rootstock, does not occur in water but is the only terrestrial member of the genus. Confined to shady areas on granite slopes and rock rills, occasionally under Bullich woodland between Yalperungup and Castle Rock. Killed by fire, regenerating prolifically from seed after fires. Seedlings rarely noted otherwise. Plants can flower the spring after sowing in cultivation but normally flowering occurs the next spring in the wild.

*Villarsia marchantii*. Like the previous species, a short lived perennial herb from a tuberous rootstock, it, however, is normally found along creeklines in the Karri forest between Castle Rock and Gibraltar Rock. At Devils Slide it does occur marginally sympatrically with *V. calthifolia* where a creek commences

on the upper slopes in a rock rill. Here there is a large hybrid zone present between the two species. Killed by fire, regenerating prolifically from seed.

Most of the endemic taxa (*Brachysema subcordatum*, *Billardiera granulata*, *Hibbertia bracteosa*, *Villarsia calthifolia*, *Villarsia marchantii*, *Acacia heteroclita* ssp. *valida* and *Stylidium corymbosum* var *proliferum*) are confined to the massive granite rocks above the forest cover. They are largely found in the western section of the park where these exposures are largest. Interestingly although they grow in relatively fire free environments, most are killed by fire and often only prolifically regenerate after sporadic summer fires penetrate the rock rills and moss swards where they grow.

## DISCUSSION

Porongurup National Park despite its small size is of considerable conservation significance. It contains a rich flora of over 822 taxa of vascular plants of which 709 are native. Currently 10 taxa are endemic to the Range. Another major feature of the isolated granite range is that it harbours at least 26 vascular plant taxa at their inland margins, usually disjunct from the coast around Albany or Denmark.

The major forest tree Karri (*Eucalyptus diversicolor*) is one of these taxa. The tree is genetically distinct in this isolated area (Coates and Sokolowski, 1989) and the understorey is floristically simpler than in the main forest block extending from West Cape Howe to Manjimup. This suggests that, as noted by Churchill (1968) the Karri, and associated taxa have been isolated here for over 5,000 years as Karri contracted to its current range. Other taxa at their margins may also be genetically distinct and deserve study.

The continued conservation of this island of specific and genetic diversity is the future challenge.

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### Appendix 1: Porongurup National Park Flora List

Key: \* indicates a naturalised alien species; ms indicates a manuscript name, not yet formally published; GK11314 indicates a voucher collection held in PERTH Herbarium; (Habitat Code: GR - Granite, SW - Swamp, JA - Jarrah, KA - Karri)

Taxon Name	GR	SW	JA	KA
Adiantaceae				
<i>Adiantum aethiopicum</i>				+
<i>Anogramma leptophylla</i>	+			
<i>Cheilanthes austrotenuifolia</i>	+	+	+	+
Aizoaceae				
<i>Carpobrotus modestus</i>	+			
Alliaceae				
* <i>Allium triquetrum</i>				+
* <i>Nothoscordum gracile</i>				+
Amaryllidaceae				
* <i>Amaryllis belladonna</i>				+
Anthericaceae				
<i>Agrostocrinum scabrum</i>	+		+	
<i>Arthropodium capillipes</i>			+	

Taxon Name	GR	SW	JA	KA
<i>Borya sphaerocephala</i>	+			
<i>Caesia micrantha</i>			+	
<i>Caesia occidentalis</i>			+	
<i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>	+		+	
<i>Johnsonia acaulis</i>		+		
<i>Johnsonia teretifolia</i>			+	
<i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			+	
<i>Sowerbaea laxiflora</i>			+	
<i>Thysanotus manglesianus</i>			+	
<i>Thysanotus multiflorus</i>			+	
<i>Thysanotus patersonii</i>			+	
<i>Thysanotus thyrsoides</i>			+	
<i>Tricoryne elatior</i>			+	
<i>Tricoryne humilis</i>			+	
Apiaceae				
<i>Actinotus glomeratus</i>			+	
<i>Apium prostratum</i> subsp. <i>phillipii</i> ms			+	
<i>Centella asiatica</i>			+	
<i>Daucus glochidiatus</i>	+		+	+
<i>Homalosciadium homalocarpum</i>	+			
<i>Hydrocotyle alata</i>	+			
<i>Hydrocotyle blepharocarpa</i>	+			
<i>Hydrocotyle callicarpa</i>			+	
<i>Hydrocotyle diantha</i>	+			
<i>Hydrocotyle hirta</i>				+
<i>Hydrocotyle plebeja</i>				+
<i>Hydrocotyle scutellifera</i>	+			
<i>Platysace compressa</i>		+	+	
<i>Platysace pendula</i>		+		
<i>Schoenolaena tenuior</i>			+	
<i>Trachymene anisocarpa</i>	+			
<i>Trachymene pilosa</i>	+		+	
<i>Xanthosia pusilla</i>			+	
<i>Xanthosia rotundifolia</i> var. <i>rotundifolia</i>			+	+
<i>Xanthosia singuliflora</i>		+		
Araceae				
* <i>Zantedeschia aethiopica</i>			+	+
Asphodelaceae				
<i>Bulbine semibarbata</i>	+			
Aspleniaceae				
<i>Asplenium aethiopicum</i>	+			
<i>Asplenium flabellifolium</i>	+			
Asteraceae				
* <i>Arctotheca calendula</i>	+		+	
<i>Brachyscome ciliaris</i>	+			
* <i>Carduus pyenocephalus</i>	+			+
* <i>Centaurea melitensis</i>	+			+
<i>Centipeda cunninghamii</i>				+

Taxon Name	GR	SW	JA	KA
* <i>Cirsium vulgare</i>			+	+
* <i>Conyza albida</i>			+	+
* <i>Conyza bonariensis</i>	+		+	+
* <i>Cotula bipinnata</i>	+			
<i>Cotula cotuloides</i>	+			
* <i>Cotula turbinata</i>	+		+	
<i>Craspedia variabilis</i>	+		+	
* <i>Crepis capillaris</i>				+
<i>Gnaphalium gymnocephalum</i>	+			
<i>Gnaphalium</i> sp. GJK 10095				+
<i>Gnaphalium sphaericum</i>			+	
<i>Gnephosis drummondii</i>	+	+		
<i>Helichrysum macranthum</i>	+			+
<i>Hyalosperma cotula</i>	+			
<i>Hyalosperma pusillum</i>	+			
* <i>Hypochaeris glabra</i>			+	+
<i>Ixiolaena viscosa</i>			+	
<i>Lagenifera huegellii</i>			+	+
<i>Millotia myosotidifolia</i>	+			
<i>Millotia tenuifolia</i>	+		+	
<i>Olearia ciliata</i>			+	
<i>Olearia paucidentata</i>	+			
<i>Ozothamnus ramosus</i>				+
<i>Picris angustifolia</i>	+		+	+
<i>Picris</i> sp(GK10964)				+
<i>Pithocarpa corymbulosa</i>			+	
<i>Podolepis gracilis</i>			+	
<i>Podolepis lessonii</i>	+			
<i>Podotroche angustifolia</i>		+		
* <i>Pseudognaphalium luteo-album</i>			+	
<i>Pterochaeta paniculata</i>			+	
<i>Quinetia urvillei</i>	+			
<i>Rutidosis multiflora</i>	+			
<i>Senecio glomeratus</i>	+		+	
<i>Senecio hispidulus</i>	+			+
<i>Senecio minimus</i> var. <i>minimus</i>	+			
<i>Senecio quadridentatus</i>			+	
<i>Senecio ramosissimus</i>				+
* <i>Sigesbeckia orientalis</i>				+
<i>Siloxerus humifusus</i>			+	+
* <i>Soliva pterosperma</i>	+			
* <i>Sonchus asper</i>				+
<i>Sonchus hydrophilus</i>		+		
* <i>Sonchus oleraceus</i>	+		+	+
<i>Trichocline spathulata</i>		+	+	
* <i>Vellereophyton dealbatum</i>			+	
<i>Vittadinia australasica</i>			+	
<i>Waitzia nitida</i>			+	

Taxon Name	GR	SW	JA	KA
Waitzia suaveolens			+	
Boraginaceae				
* Myosotis sylvatica				+
Brassicaceae				
* Lepidium bonariense	+			
L. pseudo-tasmanicum	+			
Rorippa dictyosperma				+
Campanulaceae				
Wahlenbergia gracilentia	+		+	
Wahlenbergia littorica			+	+
Wahlenbergia multicaulis	+			
Caryophyllaceae				
* Cerastium glomeratum	+		+	+
* Moenchia erecta	+			
* Petrohagia velutina			+	
* Polycarpon tetraphyllum	+		+	+
* Sagina apetala				+
* Silene gallica	+			
* Spergularia rubra	+			
* Stellaria media	+		+	+
Casuarinaceae				
Allocasuarina fraseriana			+	
Allocasuarina humilis			+	
Centrolepidaceae				
Aphelia cyperoides	+		+	
Aphelia drummondii	+			
Aphelia nutans			+	
Centrolepis aristata	+		+	
Centrolepis drummondiana	+			
Centrolepis glabra	+			
Centrolepis polygyna	+		+	
Centrolepis strigosa	+		+	
Chenopodiaceae				
Chenopodium pumilio			+	
Clusiaceae				
Hypericum gramineum	+			
Colchicaceae				
Burchardia congesta			+	
Burchardia multiflora	+			
Wurmbea dioica	+			
Convolvulaceae				
Dichondra repens			+	+
Crassulaceae				
Crassula colorata var. colorata	+	+	+	+
Crassula colorata var. tuberculata	+	+		
* Crassula decumbens	+			
* Crassula natans	+			
Crassula pedicellosa	+			



Taxon Name	GR	SW	JA	KA
<i>Crassula peduncularis</i>	+	+		
<i>Crassula sieberiana</i> subsp. <i>tetramera</i>	+			+
Cuscutaceae				
* <i>Cuscuta epithymum</i>		+		
Cyperaceae				
<i>Baumea juncea</i>		+		
<i>Carex inversa</i>				+
<i>Carex appressa</i>	+			
<i>Cyathochaeta avenacea</i>			+	
* <i>Cyperus tenellus</i>	+		+	
<i>Evandra aristata</i>		+		
<i>Gahnia trifida</i>			+	
<i>Isolepis congrua</i>	+		+	
<i>Isolepis cyperoides</i>	+			+
<i>Isolepis inundata</i>	+		+	
<i>Isolepis marginata</i>	+			
<i>Isolepis nodosa</i>			+	
<i>Isolepis oldfieldiana</i>	+		+	
* <i>Isolepis prolifera</i>				+
<i>Isolepis stellata</i>			+	+
<i>Lepidosperma angustatum</i>			+	
<i>Lepidosperma effusum</i>		+		+
<i>Lepidosperma gladiatum</i>			+	
<i>Lepidosperma tenue</i>			+	
<i>Lepidosperma tetraquetrum</i>				+
<i>Mesomelaena graciliceps</i>			+	
<i>Mesomelaena pseudostygia</i>			+	
<i>Mesomelaena tetragona</i>			+	
<i>Schoenus caespititius</i>			+	+
<i>Schoenus curvifolius</i>			+	
<i>Schoenus humilis</i>	+		+	
<i>Schoenus lanatus</i>			+	
<i>Schoenus minutulus</i>	+			
<i>Schoenus subbulbosus</i>			+	
<i>Schoenus subflavus</i>			+	
<i>Tetraria capillaris</i>			+	
<i>Tetraria octandra</i>	+		+	
<i>Tricostularia neesii</i>	+		+	
Dasygongonaceae				
<i>Calectasia cyanea</i>			+	
<i>Calectasia grandiflora</i>			+	
<i>Chamaexeros serra</i>		+	+	
<i>Dasygogon bromeliifolius</i>			+	
<i>Kingia australis</i>			+	
<i>Lomandra caespitosa</i>			+	
<i>Lomandra micrantha</i>			+	
<i>Lomandra nigricans</i>			+	
<i>Lomandra pauciflora</i>	+			+

Taxon Name	GR	SW	JA	KA
<i>Lomandra preissii</i>			+	
<i>Lomandra purpurea</i>			+	
<i>Lomandra sericea</i>			+	
<i>Lomandra suaveolens</i>			+	
Dennstaedtiaceae				
<i>Peridium esculentum</i>		+	+	+
Dilleniaceae				
<i>Hibbertia amplexicaulis</i>			+	
<i>Hibbertia bracteosa</i>			+	
<i>Hibbertia commutata</i>			+	
<i>Hibbertia cunninghamii</i>			+	
<i>Hibbertia gracilipes</i>			+	
<i>Hibbertia lineata</i>			+	
<i>Hibbertia microphylla</i>			+	
<i>Hibbertia pulchra</i>			+	
<i>Hibbertia serrata</i>			+	+
Droseraceae				
<i>Drosera barbigera</i>		+	+	
<i>Drosera erythrorhiza</i>			+	
<i>Drosera glanduligera</i>	+		+	
<i>Drosera lasiantha</i>			+	
<i>Drosera macrantha</i>	+		+	
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	+	+	+	
<i>Drosera pallida</i>			+	
<i>Drosera pulchella</i>			+	
<i>Drosera stolonifera</i>	+		+	
<i>Drosera subhirtella</i> subsp. <i>subhirtella</i>	+		+	
Epacridaceae				
<i>Andersonia caerulea</i>			+	
<i>Andersonia micrantha</i>			+	
<i>Andersonia sprengelioides</i>	+			
<i>Astroloma</i> aff. <i>humifusum</i> Porongorups			+	
<i>Astroloma baxteri</i>			+	
<i>Astroloma ciliatum</i>			+	
<i>Astroloma drummondii</i>			+	
<i>Astroloma pallidum</i>			+	
<i>Leucopogon australis</i>			+	
<i>Leucopogon capitellatus</i>			+	
<i>Leucopogon carinatus</i>	+			
<i>Leucopogon cymbiformis</i>			+	
<i>Leucopogon distans</i> var. <i>distans</i>			+	
<i>Leucopogon gibbosus</i>			+	
<i>Leucopogon glabellus</i>			+	
<i>Leucopogon gracillimus</i>			+	
<i>Leucopogon obovatus</i>			+	+
<i>Leucopogon oppositifolius</i>			+	
<i>Leucopogon oxycedrus</i>		+	+	
<i>Leucopogon pendulus</i>			+	+

Taxon Name	GR	SW	JA	KA
Leucopogon pogonocalyx			+	
Leucopogon propinquus	+			
Leucopogon racemosus			+	
Leucopogon unilateralis			+	
Leucopogon verticillatus			+	+
Lysinema ciliatum			+	
Lysinema lasianthum		+		
Needhamiella pumilio			+	
Oligarrhena micrantha			+	
Sphenotoma capitatum			+	
Styphelia tenuiflora			+	
Euphorbiaceae				
Phyllanthus calycinus			+	
Poranthera microphylla			+	
Ricinocarpos glaucus			+	
Fumariaceae				
* Fumaria capreolata				+
* Fumaria muralis			+	
Gentianaceae				
* Centaurium erythraea			+	+
Sebaea ovata	+			
Geraniaceae				
* Erodium cicutarium			+	+
* Geranium molle				+
Geranium retrorsum	+			
Geranium solanderi	+			
Pelargonium australe	+			
Goodeniaceae				
Dampiera alata			+	
Dampiera diversifolia			+	+
Dampiera hederacea				+
Dampiera fasciculata			+	
Dampiera juncea			+	
Dampiera lavandulacea			+	
Dampiera linearis	+		+	+
Dampiera sacculata			+	
Goodenia caerulea			+	
Goodenia leptoclada			+	
Goodenia micrantha	+			
Goodenia pulchella			+	
Goodenia scapigera			+	
Lechenaultia formosa			+	
Scaevola auriculata			+	
Scaevola calliptera			+	
Scaevola lanceolata			+	
Scaevola striata	+		+	+
Velleia trinervis	+			
Haemodoraceae				

Taxon Name	GR	SW	JA	KA
<i>Anigozanthos bicolor</i> subsp. <i>decrescens</i>			+	
<i>Conostylis serrulata</i>			+	
<i>Conostylis setigera</i>			+	
<i>Haemodorum discolor</i>			+	
<i>Haemodorum paniculatum</i>			+	
<i>Haemodorum simplex</i>	+			
<i>Haemodorum sparsiflorum</i>		+		
<i>Haemodorum spicatum</i>			+	
<i>Tribonanthes australis</i>	+			
<i>Tribonanthes longipetala</i>		+		
Haloragaceae				
<i>Gonocarpus diffusus</i>	+			+
<i>Haloragis brownii</i>	+			+
Hydatellaceae				
<i>Trithuria submersa</i>	+	+		
Hypoxidaceae				
<i>Hypoxis glabella</i> var. <i>glabella</i>			+	
<i>Hypoxis occidentalis</i>	+		+	
Iridaceae				
* <i>Gladiolus angustus</i>	+			
<i>Orthrosanthus laxus</i> var. <i>laxus</i>			+	
<i>Patersonia juncea</i>			+	
<i>Patersonia occidentalis</i>			+	
<i>Patersonia umbrosa</i> var. <i>umbrosa</i>			+	
* <i>Romulea rosea</i>	+		+	
* <i>Watsonia bulbifera</i>			+	+
Juncaceae				
* <i>Juncus bufonius</i>	+		+	
* <i>Juncus capitatus</i>	+		+	
<i>Juncus holoschoenus</i>			+	+
<i>Juncus meianthus</i>				+
<i>Juncus pallidus</i>			+	
<i>Juncus pauciflorus</i>			+	+
<i>Juncus subsecundus</i>			+	+
<i>Luzula meridionalis</i>			+	
Juncaginaceae				
<i>Triglochin centrocarpum</i>	+			
<i>Triglochin lineare</i>	+			
Lamiaceae				
<i>Hemiandra pungens</i> var. <i>pungens</i>			+	
<i>Hemigenia incana</i>			+	
* <i>Mentha pulegium</i>				+
* <i>Prunella vulgaris</i>				+
Lauraceae				
<i>Cassytha glabella</i>		+	+	
<i>Cassytha micrantha</i>		+		
<i>Cassytha pomiformis</i>			+	
<i>Cassytha racemosa</i>			+	

Taxon Name	GR	SW	JA	KA
Lentibulariaceae				
<i>Polypompholyx multifida</i>	+			
<i>Polypompholyx tenella</i>	+			
<i>Utricularia menziesii</i>	+			
Linaceae				
<i>Linum marginale</i>			+	
* <i>Linum trigynum</i>			+	
Lindsaeaceae				
<i>Lindsaea linearis</i>		+	+	
Lobeliaceae				
<i>Isotoma hypocrateriformis</i>			+	
<i>Lobelia alata</i> var. <i>alata</i>			+	+
<i>Lobelia gibbosa</i>				+
<i>Lobelia rhombifolia</i>			+	
Loganiaceae				
<i>Logania campanulata</i>			+	
<i>Logania serpyllifolia</i> subsp. <i>serpyllifolia</i>			+	
<i>Mitrasacme paradoxa</i>	+		+	
Loranthaceae				
<i>Amyema miquelii</i>			+	
<i>Nuytsia floribunda</i>			+	
Lycopodiaceae				
<i>Phylloglossum drummondii</i>		+		
Malvaceae				
<i>Sida hookeriana</i>	+			+
Menyanthaceae				
<i>Villarsia calthifolia</i>	+			+
<i>Villarsia marchantii</i>				+
<i>Villarsia parnassifolia</i>			+	
Mimosaceae				
<i>Acacia applanata</i>			+	
<i>Acacia baxteri</i>			+	
<i>Acacia biflora</i>			+	
<i>Acacia browniana</i> var. <i>intermedia</i>			+	
<i>Acacia cochlearis</i>	+		+	
<i>Acacia crispula</i>			+	
<i>Acacia dealbata</i> warr			+	+
<i>Acacia drummondii</i> ssp <i>elegans</i> ( <i>Porongurups</i> variant)	+		+	+
<i>Acacia enervia</i>			+	
<i>Acacia extensa</i>		+		
<i>Acacia heteroclita</i> subsp. <i>valida</i> ms	+			
<i>Acacia leioderma</i>			+	
<i>Acacia luteola</i>			+	
<i>Acacia myrtifolia</i>		+	+	+
<i>Acacia pulchella</i>		+	+	
<i>Acacia saligna</i>		+	+	
<i>Acacia spectabilis</i> ms			+	

Taxon Name	GR	SW	JA	KA
<i>Acacia subcaerulea</i>			+	
<i>Acacia urophylla</i>				+
<i>Acacia willdenowiana</i>		+		
<i>Paraserianthes lophantha</i>	+			+
Myoporaceae				
<i>Myoporum tetrandrum</i>				+
Myrtaceae				
<i>Agonis hypericifolia</i>			+	
<i>Agonis linearifolia</i>	+			+
<i>Agonis parviceps</i>			+	
<i>Astartea fascicularis</i>			+	
<i>Beaufortia anisandra</i>		+	+	
<i>Beaufortia empetrifolia</i>			+	
<i>Beaufortia heterophylla</i>			+	
<i>Beaufortia micrantha</i>			+	
<i>Beaufortia sparsa</i>		+		
<i>Corymbia calophylla</i>			+	+
<i>Calothamnus gracilis</i>		+		
<i>Calothamnus lehmannii</i>			+	
<i>Calothamnus quadrifidus</i>			+	
<i>Calytrix asperula</i>			+	
<i>Calytrix similis</i>			+	
<i>Darwinia citriodora</i>			+	
<i>Darwinia oederoides</i>			+	
<i>Darwinia vestita</i>			+	+
<i>Eucalyptus cornuta</i>	+			
<i>Eucalyptus decipiens</i>			+	
<i>Eucalyptus diversicolor</i>				+
<i>Eucalyptus marginata</i>			+	
<i>Eucalyptus megacarpa</i>	+			
<i>Eucalyptus tetragona</i>		+		
<i>Homalospermum firmum</i>		+		
<i>Hypocalymma cordifolium</i>		+		
<i>Kunzea micrantha</i> subsp. <i>oligomera</i>			+	
<i>Kunzea preissiana</i>			+	
<i>Kunzea recurva</i>			+	
<i>Kunzea sulphurea</i>		+		
<i>Leptospermum spinescens</i>		+	+	
<i>Melaleuca blairiifolia</i>	+			
<i>Melaleuca densa</i>	+		+	
<i>Melaleuca depauperata</i>			+	
<i>Melaleuca incana</i> subsp. <i>tenella</i>		+		
<i>Melaleuca preissiana</i>			+	
<i>Melaleuca scabra</i>			+	
<i>Melaleuca suberosa</i>		+	+	
<i>Melaleuca subfalcata</i>			+	
<i>Melaleuca thymoides</i>			+	
<i>Pericalymma ellipticum</i>		+		

Taxon Name	GR	SW	JA	KA
<i>Thryptomene saxicola</i>	+			
<i>Verticordia densiflora</i>			+	
<i>Verticordia sieberi</i> var. <i>lomata</i>			+	
Olacaceae				
<i>Olax phyllanthi</i>			+	+
Onagraceae				
<i>Epilobium billardierianum</i> subsp. <i>cinereum</i>				+
<i>Epilobium hirtigerum</i>				+
Ophioglossaceae				
<i>Ophioglossum lusitanicum</i>	+			
Orchidaceae				
<i>Caladenia brownii</i>			+	
<i>Caladenia cairnsiana</i>			+	
<i>Caladenia dilatata</i>			+	
<i>Caladenia ensata</i>			+	
<i>Caladenia flava</i>	+	+	+	
<i>Caladenia heberleana</i>			+	
<i>Caladenia huegelii</i>			+	
<i>Caladenia latifolia</i>			+	
<i>Caladenia lobata</i>			+	
<i>Caladenia longicauda</i> ssp. <i>eminens</i>			+	
<i>Caladenia longiclavata</i>			+	
<i>Caladenia macrostylis</i>			+	
<i>Caladenia menziesii</i>	+			
<i>Caladenia nana</i> subsp. <i>nana</i>	+		+	
<i>Caladenia plicata</i>			+	
<i>Caladenia reptans</i>			+	
<i>Caladenia sericea</i>	+		+	
<i>Corybas recurvus</i>				+
<i>Cryptostylis ovata</i>	+		+	
<i>Cyrtostylis huegelii</i>			+	+
<i>Diuris amplissima</i>			+	
<i>Diuris laevis</i>			+	
<i>Diuris laxiflora</i>			+	
<i>Diuris longifolia</i>	+		+	
<i>Diuris setacea</i>	+		+	
<i>Drakaea glyptodon</i>			+	
<i>Drakaea livida</i>			+	
<i>Elythranthera brunonis</i>			+	+
<i>Elythranthera emarginata</i>			+	
<i>Eriochilus dilatatus</i>			+	
<i>Eriochilus scaber</i> subsp. <i>scaber</i>			+	
<i>Leporella fimbriata</i>			+	
<i>Lyperanthus nigricans</i>			+	+
<i>Lyperanthus serratus</i>			+	
<i>Microtis alba</i>			+	
<i>Microtis media</i>	+		+	
* <i>Monadenia bracteata</i>	+	+	+	

Taxon Name	GR	SW	JA	KA
<i>Paracaleana nigrita</i>			+	
<i>Præcoxanthus aphyllus</i>			+	
<i>Prasophyllum brownii</i>			+	
<i>Prasophyllum elatum</i>			+	
<i>Prasophyllum fimbria</i>			+	
<i>Prasophyllum hians</i>			+	
<i>Prasophyllum ovale</i>			+	
<i>Prasophyllum parvifolium</i>			+	
<i>Prasophyllum regium</i>			+	
<i>Pterostylis aff. nana</i>	+			
<i>Pterostylis barbata</i>	+		+	
<i>Pterostylis nana</i>	+			
<i>Pterostylis recurva</i>			+	
<i>Pterostylis vittata</i>			+	
<i>Thelymitra cornicina</i>			+	
<i>Thelymitra crinita</i>			+	
<i>Thelymitra flexuosa</i>			+	
<i>Thelymitra fuscolutea</i>			+	
<i>Thelymitra mucida</i>			+	
<i>Thelymitra nuda</i>			+	+
<i>Thelymitra pauciflora</i>	+			+
Orobanchaceae				
* <i>Orobanche minor</i>		+	+	+
Oxalidaceae				
* <i>Oxalis caprina</i>				+
<i>Oxalis perennans</i>	+		+	+
* <i>Oxalis pes-caprae</i>				+
* <i>Oxalis purpurea</i>				+
* <i>Oxalis violacea</i>				+
Papilionaceae				
<i>Bossiaea linophylla</i>			+	
<i>Bossiaea ornata</i>			+	
<i>Bossiaea praetermissa</i>		+	+	
<i>Brachysema sericeum</i>			+	
<i>Brachysema subcordatum</i>		+		+
<i>Callistachys lanceolata</i>			+	+
<i>Chorizema aciculare</i>			+	
<i>Chorizema carinatum</i>			+	
<i>Chorizema cordatum</i>			+	
<i>Chorizema diversifolium</i>			+	
<i>Chorizema nanum</i>			+	+
<i>Chorizema rhombeum</i>			+	
* <i>Cytisus proliferus</i>				+
<i>Daviesia incrassata ssp. reversifolia</i>			+	
<i>Daviesia cordata</i>			+	
<i>Daviesia decurrens</i>			+	
<i>Daviesia flexuosa</i>			+	
<i>Daviesia horrida</i>			+	



Taxon Name	GR	SW	JA	KA
* <i>Dipogon lignosus</i>			+	
<i>Eutaxia densifolia</i>			+	
<i>Eutaxia obovata</i>	+			
<i>Gastrolobium stenophyllum</i>		+		
<i>Gompholobium amplexicaule</i>			+	
<i>Gompholobium confertum</i>			+	
<i>Gompholobium knightianum</i>			+	
<i>Gompholobium marginatum</i>			+	
<i>Gompholobium ovatum</i>	+		+	
<i>Gompholobium polymorphum</i>			+	
<i>Gompholobium preissii</i>		+	+	
<i>Gompholobium scabrum</i>		+	+	
<i>Hardenbergia comptoniana</i>	+		+	
<i>Hovea chorizemifolia</i>			+	
<i>Hovea elliptica</i>			+	+
<i>Hovea trisperma</i>			+	
<i>Isotropis cuneifolia</i>			+	
<i>Jacksonia condensata</i>				+
<i>Jacksonia spinosa</i>			+	
<i>Kennedia coccinea</i>	+		+	
<i>Kennedia microphylla</i>			+	
<i>Kennedia prostrata</i>			+	
* <i>Lablab purpureus</i>				+
<i>Latrobea hirtella</i>		+	+	
* <i>Lotus suaveolens</i>			+	+
<i>Mirbelia dilatata</i>				+
* <i>Ornithopus compressus</i>	+			+
* <i>Ornithopus pinnatus</i>	+			+
* <i>Psoralea pinnata</i>			+	
<i>Pultenaea obcordata</i>			+	
<i>Pultenaea reticulata</i>		+	+	
<i>Pultenaea strobilifera</i>		+	+	
<i>Sphaerolobium linophyllum</i>			+	
<i>Sphaerolobium medium</i>		+		
<i>Sphaerolobium nudiflorum</i>			+	
* <i>Trifolium campestre</i>			+	+
* <i>Trifolium cernuum</i>	+			+
* <i>Trifolium dubium</i>	+	+		
* <i>Trifolium subterraneum</i>	+		+	
<i>Viminaria juncea</i>			+	+
Philydraceae				
<i>Philydrella pygmaea</i>			+	
Phormiaceae				
<i>Dianella brevicaulis</i>		+	+	
<i>Dianella revoluta</i> var. <i>revoluta</i>			+	
<i>Stypandra glauca</i>	+			
Pittosporaceae				
<i>Billardiera floribunda</i>			+	

Taxon Name	GR	SW	JA	KA
<i>Billardiera granulata</i>	+			+
<i>Billardiera variifolia</i>			+	
<i>Sollya heterophylla</i>	+		+	+
Plantaginaceae				
<i>Plantago debilis</i>	+			+
* <i>Plantago lanceolata</i>	+		+	+
Poaceae				
<i>Agrostis ?avenacea</i> GJK11314	+			
<i>Agrostis avenacea</i>	+			
* <i>Aira caryophyllea</i>	+			
* <i>Aira cupaniana</i>	+	+	+	
<i>Amphipogon amphipogonoides</i>				+
<i>Amphipogon turbinatus</i>			+	
* <i>Anthoxanthum odoratum</i>				+
* <i>Avena barbata</i>	+			
* <i>Briza maxima</i>	+			
* <i>Briza minor</i>	+		+	+
* <i>Bromus diandrus</i>	+	+		
* <i>Bromus hordeaceus</i> subsp. <i>hordeaceus</i>			+	
<i>Danthonia caespitosa</i>	+		+	
<i>Deyeuxia drummondii</i>	+			
<i>Deyeuxia quadriseta</i>	+			
<i>Dichelachne crinita</i>			+	
* <i>Holcus lanatus</i>	+	+	+	
* <i>Hordeum leporinum</i>		+	+	
* <i>Lolium rigidum</i>	+		+	
<i>Microlaena stipoides</i>			+	
<i>Neurachne alopecuroidea</i>			+	
* <i>Paspalum dilatatum</i>			+	
* <i>Poa annua</i>	+		+	
<i>Poa drummondiana</i>			+	
<i>Poa poiformis</i>	+			
<i>Poa serpentum</i>		+	+	
* <i>Schismus barbatus</i>	+			
* <i>Sporobolus indicus</i>	+			
<i>Stipa compressa</i>	+		+	
<i>Stipa semibarbata</i>			+	
<i>Stipa trichophylla</i>				+
<i>Tetrarrhena laevis</i>			+	
* <i>Vulpia bromoides</i>			+	
* <i>Vulpia myuros</i>			+	
Polygalaceae				
<i>Comesperma calymega</i>			+	
<i>Comesperma virgatum</i>		+	+	
Polygonaceae				
* <i>Rumex acetosella</i>	+		+	+
* <i>Rumex conglomeratus</i>				+
Portulacaceae				

Taxon Name	GR	SW	JA	KA
<i>Calandrinia calyptрата</i>	+			
<i>Calandrinia granulifera</i>	+			
Primulaceae				
* <i>Anagallis arvensis</i> var. <i>arvensis</i>	+			
* <i>Anagallis arvensis</i> var. <i>caerulea</i>	+		+	+
Proteaceae				
<i>Acidonia microcarpa</i>		+		
<i>Adenanthos apiculatus</i>		+	+	
<i>Banksia attenuata</i>			+	
<i>Banksia gardneri</i> var. <i>gardneri</i>			+	
<i>Banksia grandis</i>			+	
<i>Banksia littoralis</i>			+	
<i>Banksia sphaerocarpa</i> var. <i>sphaerocarpa</i>			+	
<i>Conospermum caeruleum</i> ssp. <i>adpressum</i>			+	
<i>Conospermum caeruleum</i> ssp. <i>caeruleum</i>			+	
<i>Conospermum capitatum</i> subsp. <i>velutinum</i>			+	
<i>Conospermum multispicatum</i>			+	
<i>Dryandra armata</i>			+	
<i>Dryandra conferta</i>			+	
<i>Dryandra formosa</i>			+	
<i>Dryandra nervosa</i>		+	+	
<i>Dryandra nivea</i>			+	
<i>Dryandra seneciifolia</i>			+	
<i>Franklandia fucifolia</i>			+	
<i>Grevillea brownii</i>			+	
<i>Grevillea depauperata</i>			+	
<i>Grevillea diversifolia</i> subsp. <i>subtersericata</i>			+	
<i>Grevillea fasciculata</i>			+	
<i>Grevillea pulchella</i>			+	
<i>Grevillea trifida</i>			+	
<i>Hakea amplexicaulis</i>			+	
<i>Hakea corymbosa</i>			+	
<i>Hakea falcata</i>			+	
<i>Hakea florida</i>			+	
<i>Hakea prostrata</i>			+	
<i>Hakea ruscifolia</i>			+	
<i>Hakea trifurcata</i>			+	
<i>Hakea undulata</i>			+	
<i>Hakea varia</i>			+	
<i>Isopogon attenuatus</i>			+	
<i>Isopogon formosus</i>			+	
<i>Isopogon longifolius</i>			+	
<i>Isopogon polycephalus</i>			+	
<i>Isopogon sphaerocephalus</i>			+	
<i>Persoonia elliptica</i>			+	
<i>Petrophile acicularis</i>		+		
<i>Petrophile divaricata</i>			+	
<i>Petrophile diversifolia</i>			+	

Taxon Name	GR	SW	JA	KA
<i>Petrophile longifolia</i>			+	
<i>Petrophile rigida</i>		+	+	
<i>Petrophile serruriae</i>			+	
<i>Petrophile teretifolia</i>			+	
<i>Stirlingia simplex</i>		+		
<i>Stirlingia tenuifolia</i>		+	+	
<i>Synaphaea favosa</i>			+	
<i>Synaphaea petiolaris</i> subsp. <i>petiolaris</i>			+	
<i>Synaphea polymorpha</i>			+	
<i>Synaphea reticulata</i>			+	
Ranunculaceae				
<i>Clematis pubescens</i>			+	+
<i>Ranunculus colonorum</i>	+			+
Restionaceae				
<i>Anarthria gracilis</i>		+	+	
<i>Anarthria humilis</i>	+	+	+	
<i>Anarthria laevis</i>		+		
<i>Anarthria prolifera</i>			+	
<i>Harperia lateriflora</i>			+	
<i>Hypolaena exsulca</i>			+	
<i>Lepidobolus chaetocephalus</i>			+	
<i>Leptocarpus tenax</i>		+		
<i>Lepyrodia drummondiana</i>			+	
<i>Lepyrodia hennaphrodita</i>	+		+	
<i>Lepyrodia monoica</i>		+		+
<i>Loxocarya fasciculata</i>		+	+	
<i>Loxocarya pubescens</i>		+	+	
<i>Lyginia barbata</i>		+		
<i>Restio laxus</i>			+	
<i>Restio tremulus</i>		+		
Rhamnaceae				
<i>Cryptandra arbutiflora</i>		+		
<i>Spyridium spadiceum</i>	+			+
<i>Trymalium floribundum</i> var. <i>triflorum</i>				+
<i>Trymalium ledifolium</i> var. <i>rosmarinifolium</i>			+	
Rosaceae				
* <i>Acaena echinata</i>			+	+
* <i>Prunus cerasifera</i>				+
* <i>Rosa canina</i>			+	
* <i>Rosa moschatum</i>				+
* <i>Rubus ulmifolius</i>	+		+	+
Rubiaceae				
* <i>Galium divaricatum</i>			+	+
* <i>Galium murale</i>	+			
<i>Opercularia apiciflora</i>			+	
<i>Opercularia hispidula</i>	+			+
<i>Opercularia vaginata</i>			+	
<i>Opercularia volubilis</i>	+			+

Taxon Name	GR	SW	JA	KA
Rutaceae				
Boronia crenulata	+		+	+
Boronia heterophylla		+		
Boronia molloyae				+
Boronia ramosa subsp. anethifolia			+	
Boronia spathulata			+	
Crowea angustifolia var. angustifolia			+	
Phebalium anceps		+		
Santalaceae				
Leptomeria pauciflora			+	
Leptomeria squarrulosa			+	
Sapindaceae				
Dodonaea ceratocarpa	+			
Scrophulariaceae				
* Bellardia trixago	+		+	+
Gratiola peruviana			+	
* Parentucellia latifolia	+			
* Parentucellia viscosa	+		+	
* Verbascum virgatum				+
* Veronica arvensis			+	+
Veronica calycina			+	
Veronica plebeia			+	
Selaginellaceae				
Selaginella gracillima	+			
Solanaceae				
* Solanum nigrum	+		+	+
Stackhousiaceae				
Stackhousia pubescens			+	
Stackhousia scoparia			+	
Tripterococcus brunonis			+	
Sterculiaceae				
Rulingia corylifolia	+			
Rulingia craurophylla			+	
Rulingia grandiflora			+	
Rulingia platycalyx				+
Thomasia foliosa			+	
Thomasia paniculata			+	
Thomasia purpurea			+	
Thomasia tenuivesta				+
Stylidiaceae				
Levenhookia dubia	+			
Levenhookia pusilla	+		+	
Stylidium adnatum			+	+
Stylidium amoenum			+	
Stylidium breviscapum			+	
Stylidium brunonianum subsp. minor			+	
Stylidium calcaratum	+		+	
Stylidium corymbosum var. proliferum	+			

Taxon Name	GR	SW	JA	KA
<i>Stylidium crassifolium</i>			+	
<i>Stylidium guttatum</i>	+			
<i>Stylidium junceum</i> subsp. <i>brevius</i>		+		
<i>Stylidium petiolare</i>	+	+		
<i>Stylidium repens</i> var. <i>repens</i>			+	
<i>Stylidium spathulatum</i> subsp. <i>spathulatum</i>			+	
<i>Stylidium spinulosum</i> subsp. <i>spinulosum</i>		+	+	
Thymelaeaceae				
<i>Pimelea angustifolia</i>		+		
<i>Pimelea ciliata</i> subsp. <i>ciliata</i>			+	
<i>Pimelea hispida</i>		+		
<i>Pimelea imbricata</i> var. <i>imbricata</i>	+			
<i>Pimelea lehmanniana</i> subsp. <i>lehmanniana</i>			+	
<i>Pimelea longiflora</i> subsp. <i>longiflora</i>		+	+	
<i>Pimelea rosea</i>			+	
<i>Pimelea suaveolens</i> var. <i>suaveolens</i>	+			
<i>Pimelea sulphurea</i>			+	+
Tremandraceae				
<i>Tetrathea affinis</i>			+	
<i>Tetrathea nuda</i>			+	
<i>Tremandra diffusa</i>	+		+	
<i>Tremandra stelligera</i>			+	
Ulmaceae				
* <i>Ulmus procera</i>				+
* <i>Populus alba</i>				+
Valerianaceae				
* <i>Centranthus ruber</i>				+
Violaceae				
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>			+	
Xanthorrhoeaceae				
<i>Xanthorrhoea gracilis</i>	+		+	
<i>Xanthorrhoea platyphylla</i>		+	+	